

ABSTRACT

A transmission 2 for changing rotation of an input shaft to transmit the changed rotation from an output shaft to wheels, a first clutch 3 to connect and disconnect the power transmission between an output shaft of an engine 1 and the input shaft of the transmission 2, a rotating electric machine 4 to serve as both a motor and an electric generator, a second clutch 30 to connect and disconnect the power transmission between the rotating electric machine 4 and the input shaft of the transmission 2, a storage device 9 to store electric power supplied from the rotating electric machine 4, and a second clutch control unit to perform control of the rotational speed of the rotating electric machine 4 when the second clutch 30 is connected, wherein the second clutch 30 is connected after a speed difference between the rotational speed thereof and the rotational speed at the transmission side falls within a permissible range are included. When stopping, the rotating electric machine 4 is separated from the drive system by the second clutch, whereby a drive loss by the inertial mass and friction is reduced and the fuel economy of the engine 1 is improved.